

## WHAT IS CLAIMED IS:

1. A high-frequency power inductance element comprising:

5 a coil formed of a band-shaped conductor spirally wound in a cylindrical shape so that the wider surfaces thereof come flush with each other;

an electrically insulated bobbin for mounting said coil thereon; and

10 a core inserted into said bobbin to form a closed magnetic circuit.

2. A high-frequency power inductance element according to claim 1, wherein said coil is formed of the band-shaped 15 conductor wound spirally in a cylindrical shape such that said band-shaped conductor being formed into rectangular staggered patterns which extend in the same direction as a whole while bending in an L-shape to the left and right, is folded in the vertical and horizontal direction 20 alternately relative to the pattern plane.

3. A high-frequency power inductance element according to claim 1 or 2, wherein said coil is provided so that the wider surfaces of said band-shaped conductor contact a 25 mounting surface.

4. A high-frequency power inductance element according to claim 1 or 2, wherein end portions of the band-shaped conductor forming said coil are formed as coil terminals.

5. A high-frequency power inductance element according to claim 1 or 2, wherein the middle portion of the band-shaped conductor forming said coil is formed as a middle tap-out terminal of said coil.

5

6. A high-frequency power inductance element according to claim 1 or 2, wherein said bobbin is integrally formed of two bobbin portions, said coil is mounted on the outer surface of each of said two bobbin portions respectively, 10 each leg portion of a U-shaped core is inserted into said two bobbin portions, and each top end surface of said leg portions is magnetically bridged by an I-shaped core to form an annular closed magnetic circuit.

15 7. A high-frequency power inductance element according to claim 1 or 2, wherein said bobbin is integrally formed with a tray portion which positions and fixes said core, and electrically insulates said core from a mounting surface.

20

8. A high-frequency power inductance element according to claim 1 or 2, wherein said bobbin is formed with a fixing tab for mounting on a printed circuit board.

25 9. A high-frequency power inductance element according to claim 1 or 2, wherein a plurality of said coils are provided to form a primary coil and a secondary coil of a transformer.

30 10. A high-frequency power inductance element according

to claim 1 or 2, wherein said coil forms a choke coil.

11. A high-frequency power inductance element according to claim 1 or 2, wherein a plurality of said coils are 5 provided to be connected in series or in parallel so as to form a choke coil.

12. A high-frequency power inductance element according to claim 1 or 2, wherein a rectangular copper strip is used 10 as said band-shaped conductor.